

WHAT IS CLAIMED IS:

1. A liquid crystal display device comprising:

a pair of substrates at least one of which is transparent
and between which a liquid crystal layer is interposed;

5 a plurality of gate lines and a plurality of drain lines
being formed on an inner surface of one of the pair of
substrates;

a thin film transistor being disposed at an intersecting
portion of one of the plurality of gate lines and one of the
10 plurality of drain lines;

a pixel electrode being connected to the thin film
transistor;

a counter electrode being disposed opposite to the pixel
electrode;

15 wherein an edge portion of a semiconductor layer
situated under a source electrode of the thin film transistor
is arranged within an edge of the gate line situated under the
semiconductor layer.

2. A liquid crystal display device according to claim 1,
20 wherein a width of the semiconductor layer situated under the
source electrode is broader than that of the source electrode.

3. A liquid crystal display device according to claim 1,
wherein the semiconductor layer of the thin film transistor
is separated from a semiconductor layer being disposed at the
25 intersection portion of the gate line and the drain line.

4. A liquid crystal display device according to claim 3,
wherein the thin film transistor has a drain electrode

branching off from the one of the plurality of drain lines at
a location outside the gate line situated under the
semiconductor layer, covering a corner of the semiconductor
layer at a side of the one of the plurality of drain lines,
5 and extending over the semiconductor layer, and

the semiconductor layer has two directional getting
over portion where the drain electrode gets over an edge of
the semiconductor layer in two different directions with
respect to an extension direction of the drain electrode.

10 5. A liquid crystal display device according to claim 3,
wherein the semiconductor layer of the thin film transistor
has three directional getting over portions where the drain
electrode and the source electrode gets over an edge of the
semiconductor layer in three different directions with respect
15 to respective extension directions thereof.

6. A liquid crystal display device comprising:

a pair of substrates at least one of which is transparent
and between which a liquid crystal layer is interposed;

a plurality of pixel regions being disposed in a matrix
20 manner along a first direction and a second direction
transverse to the first direction on an inner surface of one
of the pair of substrates, each of which has a gate electrode,
an insulating layer being formed over the gate electrode, a
semiconductor layer being formed on the insulating layer,
25 source and drain electrodes being formed on the semiconductor
layer and spaced from one another, and a pixel electrode being
connected to one of the source and drain electrodes;

a plurality of gate signal lines respective one of which is connected to the gate electrode of each of the pixel regions being arranged along the first direction; and

5 a plurality of video signal lines respective one of which is connected to another of the source and drain electrodes of each of the pixel regions being arranged in the second direction,

wherein the semiconductor layer is formed within a contour of the gate electrode in each of the pixel regions.

10 7. A liquid crystal display device according to claim 6, wherein each of the plurality of video signal lines are formed on another semiconductor layer being formed so as to be spaced from the semiconductor layer of each of the pixel regions.

8. A liquid crystal display device according to claim 6,
15 further comprising a counter electrode being formed on an inner surface of another of the pair of substrates, wherein each of the pixel electrodes is opposite to the counter electrode across the liquid crystal layer.

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